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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,993	10/043,993 01/09/2002		Peter Nangle	10559-512001	8075	
20985	7590	01/17/2006		EXAM	EXAMINER	
FISH & RIC		TRAN, AN	TRAN, ANDREW Q			
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER	
	,			2824		
				DATE MAILED: 01/17/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

			d				
	Application No.	Applicant(s)					
	10/043,993	NANGLE, PETER	₹				
Office Action Summary	Examiner	Art Unit					
	Andrew Q. Tran	2824	_				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	ith the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [ - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may and will apply and will expire SIX (6) MONITE, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this of BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 04.	April 2005 and 05 October	2004					
	is action is non-final.	<del>2004</del> .					
<i>,</i>		ere prosecution as to th	e merite ie				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-36 is/are pending in the application	n.						
4a) Of the above claim(s) is/are withdra	awn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-36</u> are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examin	ner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the E	Examiner. Note the attached	d Office Action or form P	TO-152.				
Priority under 35 U.S.C. § 119							
<ul><li>12) Acknowledgment is made of a claim for foreig</li><li>a) All b) Some * c) None of:</li></ul>	n priority under 35 U.S.C. §	§ 119(a)-(d) or (f).					
1. Certified copies of the priority documer							
2. Certified copies of the priority documer	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the pri	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)			•				
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08</li> </ul>		s)/Mail Date nformal Patent Application (PT	O-152)				
Paper No(s)/Mail Date	6) Other:		·				

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## **DETAILED ACTION**

Applicant's election without traverse of Group I invention (claims 1-13 and 22-36) in the reply filed on October 05, 2004 is acknowledged. However the Restriction Requirement mailed September 07, 2004 is hereby withdrawn. A new Restriction Requirement follows.

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-13, drawn to a method, classified in class 365, subclass 113.
- II. Claims 14-21, drawn to an apparatus, classified in class 365, subclass 163.
- III. Claims 22-29, drawn to a machine-readable medium, classified in class 711, subclass 215.
- IV. Claims 30-36, drawn to an electrically-programmable phase change memory device, classified in class 365, subclass 225.7.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Group I and Group II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the method as claimed in the invention of Group I can be practiced with another materially different product, such as optically preprogramming another known phase change memory, other than the phase change memory system recited in Group II invention.

Inventions of Group I and Group III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of

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operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions recite divergent subject matters; ie. Group I claims a method for optically preprogramming a phase change memory device, while on the other hand, Group III defines a machine-readable medium including machine-executable instructions.

Inventions of Group I and Group IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention of Group IV has separate utility such as an electrically-programmable phase change memory device by itself. See MPEP § 806.05(d).

Inventions of Group II and Group III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions recite divergent subject matters; ie. Group II requires an apparatus comprising an energy source, a stage, and a controller, while in contrast, Group III is drawn to a machine-readable medium including machine-executable instructions.

Inventions of Group II and Group IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention of Group IV has separate utility such as an electrically-programmable phase change memory device by itself. See MPEP § 806.05(d).

Inventions of Group III and Group IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions recite divergent subject matters; ie. Group IV claims an

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electrically-programmable phase change memory device comprising a plurality of phase change memory cells, and a read/write circuit, while in contrast, Group III claims a machine-readable medium including machine-executable instructions.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Q. Tran whose telephone number is (571) 272-1885. The examiner can normally be reached on Mon - Fri 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard T. Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Q Tran Primary Examiner Art Unit 2824

at January 17, 2006